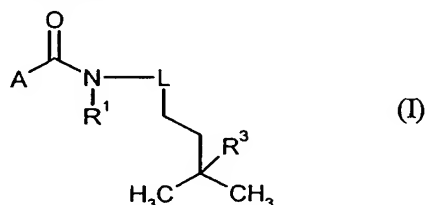
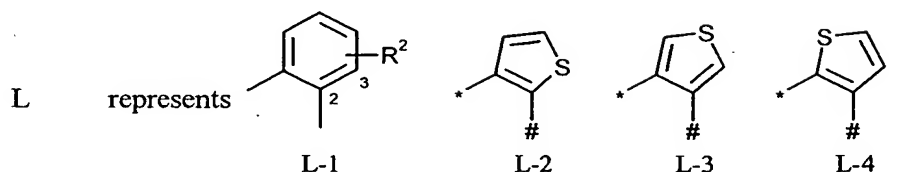


Patent claims

1. Isopentylcarboxanilides of the formula (I)



5 in which



where the bond labelled with * is attached to the amide, whereas the bond labelled with # is attached to the alkyl side chain,

- R^1 represents hydrogen, C_1 - C_8 -alkyl, C_1 - C_6 -alkylsulphinyl, C_1 - C_6 -alkylsulphonyl, C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl, C_3 - C_8 -cycloalkyl; C_1 - C_6 -haloalkyl, C_1 - C_4 -haloalkylthio, C_1 - C_4 -haloalkylsulphinyl, C_1 - C_4 -haloalkylsulphonyl, halo- C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl, C_3 - C_8 -halocycloalkyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms; formyl, formyl- C_1 - C_3 -alkyl, (C_1 - C_3 -alkyl)carbonyl- C_1 - C_3 -alkyl, (C_1 - C_3 -alkoxy)carbonyl- C_1 - C_3 -alkyl; halo-(C_1 - C_3 -alkyl)carbonyl- C_1 - C_3 -alkyl, halo-(C_1 - C_3 -alkoxy)carbonyl- C_1 - C_3 -alkyl having in each case 1 to 13 fluorine, chlorine and/or bromine atoms; (C_1 - C_8 -alkyl)carbonyl, (C_1 - C_8 -alkoxy)carbonyl, (C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl)carbonyl, (C_3 - C_8 -cycloalkyl)carbonyl; (C_1 - C_6 -haloalkyl)carbonyl, (C_1 - C_6 -haloalkoxy)carbonyl, (halo- C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl)carbonyl, (C_3 - C_8 -halocycloalkyl)carbonyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms; or $-C(=O)C(=O)R^4$, $-CONR^5R^6$ or $-CH_2NR^7R^8$,
- R^2 represents hydrogen, fluorine, chlorine, methyl or trifluoromethyl,
- R^3 represents hydrogen, halogen, C_1 - C_8 -alkyl, C_1 - C_8 -haloalkyl,
- R^4 represents hydrogen, C_1 - C_8 -alkyl, C_1 - C_8 -alkoxy, C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl, C_3 - C_8 -cycloalkyl; C_1 - C_6 -haloalkyl, C_1 - C_6 -haloalkoxy, halo- C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl, C_3 - C_8 -halocycloalkyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms,
- R^5 and R^6 independently of one another each represent hydrogen, C_1 - C_8 -alkyl, C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl, C_3 - C_8 -cycloalkyl; C_1 - C_8 -haloalkyl, halo- C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl, C_3 - C_8 -halocycloalkyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms,

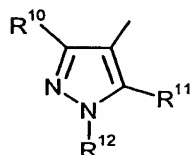
R^5 and R^6 furthermore together with the nitrogen atom to which they are attached form a saturated heterocycle having 5 to 8 ring atoms which is optionally mono- or polysubstituted by identical or different substituents from the group consisting of halogen and C_1 - C_4 -alkyl, where the heterocycle may contain 1 or 2 further non-adjacent heteroatoms from the group consisting of oxygen, sulphur and NR^9 ,

R^7 and R^8 independently of one another represent hydrogen, C_1 - C_8 -alkyl, C_3 - C_8 -cycloalkyl; C_1 - C_8 -haloalkyl, C_3 - C_8 -halocycloalkyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms,

R^7 and R^8 furthermore together with the nitrogen atom to which they are attached form a saturated heterocycle having 5 to 8 ring members which is optionally mono- or polysubstituted by identical or different substituents from the group consisting of halogen and C_1 - C_4 -alkyl, where the heterocycle may contain 1 or 2 further non-adjacent heteroatoms from the group consisting of oxygen, sulphur and NR^9 ,

R^9 represents hydrogen or C_1 - C_6 -alkyl,

A represents the radical of the formula (A1)



(A1), in which

R^{10} represents hydrogen, hydroxyl, formyl, cyano, halogen, nitro, C_1 - C_4 -alkyl, C_1 - C_4 -alkoxy, C_1 - C_4 -alkylthio, C_3 - C_6 -cycloalkyl, C_1 - C_4 -haloalkyl, C_1 - C_4 -haloalkoxy or C_1 - C_4 -haloalkylthio having in each case 1 to 5 halogen atoms, aminocarbonyl or aminocarbonyl- C_1 - C_4 -alkyl,

R^{11} represents hydrogen, halogen, cyano, C_1 - C_4 -alkyl, C_1 - C_4 -alkoxy, C_1 - C_4 -alkylthio, C_1 - C_4 -haloalkyl or C_1 - C_4 -haloalkylthio having in each case 1 to 5 halogen atoms, and

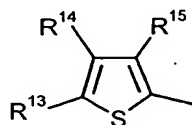
R^{12} represents hydrogen, C_1 - C_4 -alkyl, hydroxy- C_1 - C_4 -alkyl, C_2 - C_6 -alkenyl, C_3 - C_6 -cycloalkyl, C_1 - C_4 -alkylthio- C_1 - C_4 -alkyl, C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl, C_1 - C_4 -haloalkyl, C_1 - C_4 -haloalkylthio- C_1 - C_4 -alkyl, C_1 - C_4 -haloalkoxy- C_1 - C_4 -alkyl having in each case 1 to 5 halogen atoms, or represents phenyl,

with the proviso that R^{10} does not represent iodine if R^{11} represents hydrogen and

with the proviso that R^{10} does not represent trifluoromethyl or difluoromethyl if R^3 and R^{11} represent hydrogen and R^{12} represents methyl,

or

A represents the radical (A2)

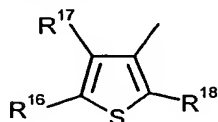


(A2), in which

R^{13} and R^{14} independently of one another represent hydrogen, halogen, C_1 - C_4 -alkyl or C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms and
 R^{15} represents halogen, cyano or C_1 - C_4 -alkyl, or C_1 - C_4 -haloalkyl or C_1 - C_4 -haloalkoxy having in each case 1 to 5 halogen atoms,

or

A represents the radical of the formula (A3)

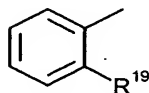


(A3), in which

R^{16} and R^{17} independently of one another represent hydrogen, halogen, C_1 - C_4 -alkyl or C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms and
 R^{18} represents hydrogen, C_1 - C_4 -alkyl or C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms,

or

A represents the radical of the formula (A4)

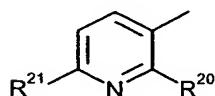


(A4), in which

R^{19} represents hydrogen, halogen, hydroxyl, cyano, C_1 - C_6 -alkyl, C_1 - C_4 -haloalkyl, C_1 - C_4 -haloalkoxy or C_1 - C_4 -haloalkylthio having in each case 1 to 5 halogen atoms,

or

A represents the radical of the formula (A5)

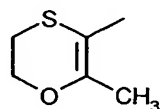


(A5), in which

R^{20} represents halogen, hydroxyl, cyano, C_1 - C_4 -alkyl, C_1 - C_4 -alkoxy, C_1 - C_4 -alkylthio, C_1 - C_4 -haloalkyl, C_1 - C_4 -haloalkylthio or C_1 - C_4 -haloalkoxy having in each case 1 to 5 halogen atoms and
 R^{21} represents hydrogen, halogen, cyano, C_1 - C_4 -alkyl, C_1 - C_4 -alkoxy, C_1 - C_4 -alkylthio, C_1 - C_4 -haloalkyl, C_1 - C_4 -haloalkoxy having in each case 1 to 5 halogen atoms, C_1 - C_4 -alkylsulphinyl or C_1 - C_4 -alkylsulphonyl,

or

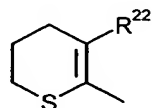
A represents the radical of the formula (A6)



(A6),

or

A represents the radical of the formula (A7)



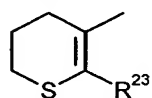
(A7), in which

5

 R^{22} represents C_1 - C_4 -alkyl or C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms,

or

A represents the radical of the formula (A8)



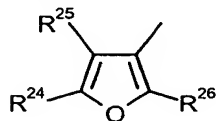
(A8), in which

 R^{23} represents C_1 - C_4 -alkyl or C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms,

10

or

A represents the radical of the formula (A9)



(A9), in which

 R^{24} and R^{25} independently of one another represent hydrogen, halogen, amino, C_1 - C_4 -alkyl or C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms and

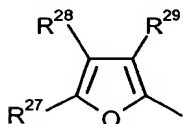
15

 R^{26} represents hydrogen, C_1 - C_4 -alkyl or C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms,with the proviso that R^{24} and R^{26} do not simultaneously represent methyl if R^{25} represents hydrogen,

or

20

A represents the radical of the formula (A10)



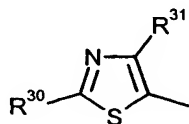
(A10) in which

 R^{27} and R^{28} independently of one another represent hydrogen, halogen, amino, nitro, C_1 - C_4 -alkyl or C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms and R^{29} represents halogen, C_1 - C_4 -alkyl or C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms,

25

or

A represents the radical of the formula (A11)



(A11) in which

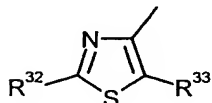
R^{30} represents hydrogen, halogen, amino, C_1 - C_4 -alkylamino, di- $(C_1$ - C_4 -alkyl)amino, cyano, C_1 - C_4 -alkyl or C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms and

5 R^{31} represents halogen, hydroxyl, C_1 - C_4 -alkyl, C_1 - C_4 -alkoxy, C_3 - C_6 -cycloalkyl, C_1 - C_4 -haloalkyl or C_1 - C_4 -haloalkoxy having in each case 1 to 5 halogen atoms,

with the proviso that R^{31} does not represent trifluoromethyl, difluoromethyl or methyl if R^3 represents hydrogen and R^{30} represents methyl,

10 or

A represents the radical of the formula (A12)



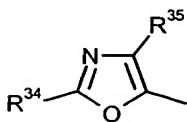
(A12) in which

R^{32} represents hydrogen, halogen, amino, C_1 - C_4 -alkylamino, di- $(C_1$ - C_4 -alkyl)amino, cyano, C_1 - C_4 -alkyl or C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms and

15 R^{33} represents halogen, C_1 - C_4 -alkyl or C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms,

or

A represents the radical of the formula (A13)



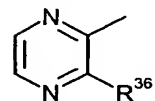
(A13) in which

R^{34} represents hydrogen or C_1 - C_4 -alkyl and

R^{35} represents halogen or C_1 - C_4 -alkyl,

or

A represents the radical of the formula (A14)

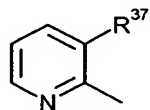


(A14) in which

25 R^{36} represents hydrogen, halogen, C_1 - C_4 -alkyl or C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms,

or

A represents the radical of the formula (A15)

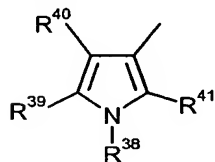


(A15) in which

R^{37} represents halogen, hydroxyl, C_1 - C_4 -alkyl, C_1 - C_4 -alkoxy, C_1 - C_4 -alkylthio, C_1 - C_4 -haloalkyl, C_1 - C_4 -haloalkylthio or C_1 - C_4 -haloalkoxy having in each case 1 to 5 halogen atoms,

5 or

A represents the radical of the formula (A16)



(A16) in which

R^{38} represents hydrogen, cyano, C_1 - C_4 -alkyl, C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms, C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl, hydroxy- C_1 - C_4 -alkyl, C_1 - C_4 -alkylsulphonyl, di(C_1 - C_4 -alkyl)aminosulphonyl, C_1 - C_6 -alkylcarbonyl or in each case optionally substituted phenylsulphonyl or benzoyl,

10

R^{39} represents hydrogen, halogen, C_1 - C_4 -alkyl or C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms,

R^{40} represents hydrogen, halogen, cyano, C_1 - C_4 -alkyl or C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms,

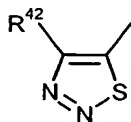
15

R^{41} represents hydrogen, halogen, C_1 - C_4 -alkyl or C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms,

with the proviso that R^{40} does not represent trifluoromethyl,

or

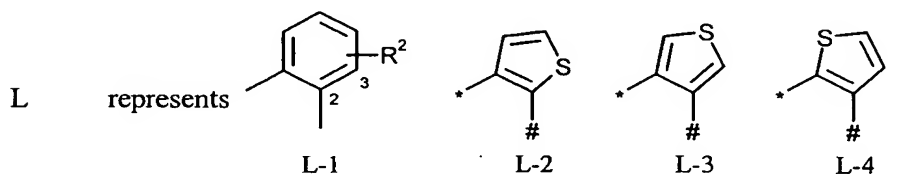
20 A represents the radical of the formula (A17)



(A17) in which

R^{42} represents C_1 - C_4 -alkyl.

2. Isopentylcarboxanilides of the formula (I) according to Claim 1 in which



25

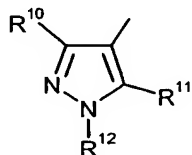
where the bond marked with * is attached to the amide, whereas the bond marked with # is attached to the alkyl side chain,

- 5 R^1 represents hydrogen, C_1 - C_6 -alkyl, C_1 - C_4 -alkylsulphinyl, C_1 - C_4 -alkylsulphonyl, C_1 - C_3 -alkoxy- C_1 - C_3 -alkyl, C_3 - C_6 -cycloalkyl; C_1 - C_4 -haloalkyl, C_1 - C_4 -haloalkylthio, C_1 - C_4 -haloalkylsulphinyl, C_1 - C_4 -haloalkylsulphonyl, halo- C_1 - C_3 -alkoxy- C_1 - C_3 -alkyl, C_3 - C_6 -halocycloalkyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms; formyl, formyl- C_1 - C_3 -alkyl, (C_1 - C_3 -alkyl)carbonyl- C_1 - C_3 -alkyl, (C_1 - C_3 -alkoxy)carbonyl- C_1 - C_3 -alkyl; halo-(C_1 - C_3 -alkyl)carbonyl- C_1 - C_3 -alkyl, halo-(C_1 - C_3 -alkoxy)carbonyl- C_1 - C_3 -alkyl having in each case 1 to 13 fluorine, chlorine and/or bromine atoms; (C_1 - C_6 -alkyl)carbonyl, (C_1 - C_4 -alkoxy)carbonyl, (C_1 - C_3 -alkoxy- C_1 - C_3 -alkyl)carbonyl, (C_3 - C_6 -cycloalkyl)carbonyl; (C_1 - C_4 -haloalkyl)carbonyl, (C_1 - C_4 -haloalkoxy)carbonyl, (halo- C_1 - C_3 -alkoxy- C_1 - C_3 -alkyl)carbonyl, (C_3 - C_6 -halocycloalkyl)carbonyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms; or $-C(=O)C(=O)R^4$, $-CONR^5R^6$ or $-CH_2NR^7R^8$,
- 10 R^2 represents hydrogen, fluorine, chlorine, methyl or trifluoromethyl,
- 15 R^3 represents hydrogen, fluorine, chlorine, bromine, iodine, C_1 - C_6 -alkyl, C_1 - C_6 -haloalkyl having 1 to 13 fluorine, chlorine and/or bromine atoms,
- 20 R^4 represents hydrogen, C_1 - C_6 -alkyl, C_1 - C_4 -alkoxy, C_1 - C_3 -alkoxy- C_1 - C_3 -alkyl, C_3 - C_6 -cycloalkyl; C_1 - C_4 -haloalkyl, C_1 - C_4 -haloalkoxy, halo- C_1 - C_3 -alkoxy- C_1 - C_3 -alkyl, C_3 - C_6 -halocycloalkyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms,
- 25 R^5 and R^6 independently of one another each represent hydrogen, C_1 - C_6 -alkyl, C_1 - C_3 -alkoxy- C_1 - C_3 -alkyl, C_3 - C_6 -cycloalkyl; C_1 - C_4 -haloalkyl, halo- C_1 - C_3 -alkoxy- C_1 - C_3 -alkyl, C_3 - C_6 -halocycloalkyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms,
- 30 R^5 and R^6 furthermore together with the nitrogen atom to which they are attached form a saturated heterocycle having 5 to 8 ring atoms which is optionally mono- to tetrasubstituted by identical or different substituents from the group consisting of halogen and C_1 - C_4 -alkyl, where the heterocycle may contain 1 or 2 further non-adjacent heteroatoms from the group consisting of oxygen, sulphur and NR^9 ,
- 35 R^7 and R^8 independently of one another represent hydrogen, C_1 - C_6 -alkyl, C_3 - C_6 -cycloalkyl; C_1 - C_4 -haloalkyl, C_3 - C_6 -halocycloalkyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms,
- R^7 and R^8 furthermore together with the nitrogen atom to which they are attached form a saturated heterocycle having 5 to 8 ring atoms which is optionally mono- or polysubstituted by identical or different substituents from the group consisting of

halogen and C₁-C₄-alkyl, where the heterocycle may contain 1 or 2 further non-adjacent heteroatoms from the group consisting of oxygen, sulphur and R⁹,

R⁹ represents hydrogen or C₁-C₄-alkyl,

5 A represents the radical of the formula (A1)



(A1) in which

R¹⁰ represents hydrogen, hydroxyl, formyl, cyano, fluorine, chlorine, bromine, iodine, methyl, ethyl, isopropyl, methoxy, ethoxy, methylthio, ethylthio, cyclopropyl, C₁-C₂-haloalkyl, C₁-C₂-haloalkoxy having in each case 1 to 5

10 fluorine, chlorine and/or bromine atoms, trifluoromethylthio, difluoromethylthio, aminocarbonyl, aminocarbonylmethyl or aminocarbonylethyl,

R¹¹ represents hydrogen, chlorine, bromine, iodine, methyl, ethyl, methoxy, ethoxy, methylthio, ethylthio, C₁-C₂-haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms, and

15 R¹² represents hydrogen, methyl, ethyl, n-propyl, isopropyl, C₁-C₂-haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms, hydroxymethyl, hydroxyethyl, cyclopropyl, cyclopentyl, cyclohexyl or phenyl,

with the proviso that R¹⁰ does not represent iodine if R¹¹ represents hydrogen and

with the proviso that R¹⁰ does not represent trifluoromethyl or difluoromethyl if R¹¹ and R¹² represent hydrogen and R¹² represents methyl,

20

or

A represents the radical of the formula (A2)



(A2) in which

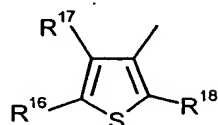
R¹³ and R¹⁴ independently of one another represent hydrogen, fluorine, chlorine, bromine, methyl, ethyl or C₁-C₂-haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms and

25

R¹⁵ represents fluorine, chlorine, bromine, iodine, cyano, methyl, ethyl, C₁-C₂-haloalkyl or C₁-C₂-haloalkoxy having in each case 1 to 5 fluorine, chlorine and/or bromine atoms,

30 or

A represents the radical of the formula (A3)



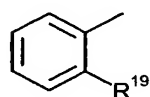
(A3) in which

R^{16} and R^{17} independently of one another represent hydrogen, fluorine, chlorine, bromine, methyl, ethyl or C_1 - C_2 -haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms and

5 R^{18} represents hydrogen, methyl, ethyl or C_1 - C_2 -haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms,

or

A represents the radical of the formula (A4)

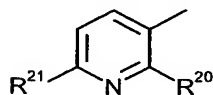


(A4) in which

10 R^{19} represents hydrogen, fluorine, chlorine, bromine, iodine, hydroxyl, cyano, C_1 - C_4 -alkyl, C_1 - C_2 -haloalkyl, C_1 - C_2 -haloalkoxy or C_1 - C_2 -haloalkylthio having in each case 1 to 5 fluorine, chlorine and/or bromine atoms,

or

A represents the radical of the formula (A5)



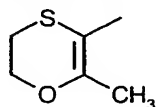
(A5) in which

15 R^{20} represents fluorine, chlorine, bromine, iodine, hydroxyl, cyano, C_1 - C_4 -alkyl, methoxy, ethoxy, methylthio, ethylthio, difluoromethylthio, trifluoromethylthio, C_1 - C_2 -haloalkyl or C_1 - C_2 -haloalkoxy having in each case 1 to 5 fluorine, chlorine and/or bromine atoms and

20 R^{21} represents hydrogen, fluorine, chlorine, bromine, iodine, cyano, C_1 - C_4 -alkyl, methoxy, ethoxy, methylthio, ethylthio, C_1 - C_2 -haloalkyl or C_1 - C_2 -haloalkoxy having in each case 1 to 5 fluorine, chlorine and/or bromine atoms, C_1 - C_2 -alkylsulphinyl or C_1 - C_2 -alkylsulphonyl,

or

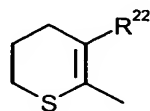
25 A represents the radical of the formula (A6)



(A6),

or

A represents the radical of the formula (A7)



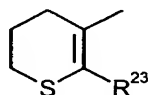
(A7) in which

R^{22} represents methyl, ethyl or C_1 - C_2 -haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms,

or

5

A represents the radical of the formula (A8)



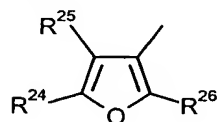
(A8) in which

R^{23} represents methyl, ethyl or C_1 - C_2 -haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms,

or

10

A represents the radical of the formula (A9)



(A9) in which

R^{24} and R^{25} independently of one another represent hydrogen, fluorine, chlorine, bromine, amino, methyl, ethyl or C_1 - C_2 -haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms, and

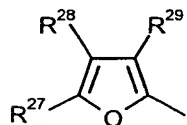
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R^{26} represents hydrogen, fluorine, chlorine, bromine, iodine, methyl, ethyl or C_1 - C_2 -haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms, with the proviso that R^{24} and R^{26} do not simultaneously represent methyl if R^{25} represents hydrogen,

or

20

A represents the radical of the formula (A10)



(A10) in which

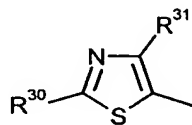
R^{27} and R^{28} independently of one another represent hydrogen, fluorine, chlorine, bromine, amino, nitro, methyl, ethyl or C_1 - C_2 -haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms and

25

R^{29} represents fluorine, chlorine, bromine, methyl, ethyl or C_1 - C_2 -haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms,

or

A represents the radical of the formula (A11)



(A11) in which

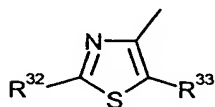
R^{30} represents hydrogen, fluorine, chlorine, bromine, amino, C_1 - C_4 -alkylamino, di(C_1 - C_4 -alkyl)amino, cyano, methyl, ethyl or C_1 - C_2 -haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms and

R^{31} represents fluorine, chlorine, bromine, hydroxyl, methyl, ethyl, methoxy, ethoxy, cyclopropyl, C_1 - C_2 -haloalkyl or C_1 - C_2 -haloalkoxy having 1 to 5 fluorine, chlorine and/or bromine atoms,

with the proviso that R^{31} does not represent trifluoromethyl, difluoromethyl or methyl if R^3 represents hydrogen and R^{30} represents methyl,

or

A represents the radical of the formula (A12)



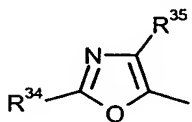
(A12) in which

R^{32} represents hydrogen, fluorine, chlorine, bromine, amino, C_1 - C_4 -alkylamino, di(C_1 - C_4 -alkyl)amino, cyano, methyl, ethyl or C_1 - C_2 -haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms and

R^{33} represents fluorine, chlorine, bromine, methyl, ethyl or C_1 - C_2 -haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms,

or

A represents the radical of the formula (A13)



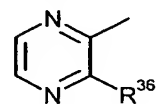
(A13) in which

R^{34} represents hydrogen, methyl or ethyl and

R^{35} represents fluorine, chlorine, bromine, methyl or ethyl,

or

A represents the radical of the formula (A14)

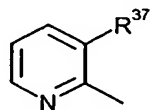


(A14) in which

R^{36} represents hydrogen, fluorine, chlorine, bromine, methyl, ethyl or C_1 - C_2 -haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms,

or

A represents the radical of the formula (A15)

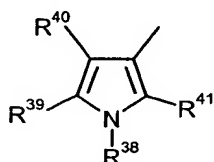


(A15) in which

R^{37} represents fluorine, chlorine, bromine, iodine, hydroxyl, C_1 - C_4 -alkyl, methoxy, ethoxy, methylthio, ethylthio, difluoromethylthio, trifluoromethylthio, C_1 - C_2 -haloalkyl or C_1 - C_2 -haloalkoxy having in each case 1 to 5 fluorine, chlorine and/or bromine atoms,

or

A represents the radical of the formula (A16)



(A16) in which

R^{38} represents hydrogen, methyl, ethyl, C_1 - C_2 -haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms, C_1 - C_2 -alkoxy- C_1 - C_2 -alkyl, hydroxymethyl, hydroxyethyl, methylsulphonyl or dimethylaminosulphonyl,

R^{39} represents hydrogen, fluorine, chlorine, bromine, methyl, ethyl or C_1 - C_2 -haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms,

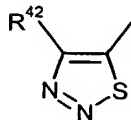
R^{40} represents hydrogen, fluorine, chlorine, bromine, cyano, methyl, ethyl, isopropyl or C_1 - C_2 -haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms,

R^{41} represents hydrogen, fluorine, chlorine, bromine, methyl, ethyl or C_1 - C_2 -haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms,

with the proviso that R^{40} does not represent trifluoromethyl,

or

A represents the radical of the formula (A17)



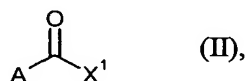
(A17) in which

R^{42} represents methyl, ethyl, n-propyl or isopropyl.

3. Isopentylcarboxanilides of the formula (I) according to Claim 1 or 2 in which L represents L-1.

4. Isopentylcarboxanilides of the formula (I) according to Claim 1 or 2 in which L represents L-2.

5. Isopentylcarboxanilides of the formula (I) according to Claim 1 or 2 in which R^1 represents hydrogen, formyl or $-C(=O)C(=O)R^4$, where R^4 is as defined in Claim 1 or 2.
6. Isopentylcarboxanilides of the formula (I) according to Claim 1 or 2 in which A represents A1.
7. Isopentylcarboxanilides of the formula (I) according to Claim 1 or 2, in which R^3 represents hydrogen.
8. Isopentylcarboxanilides of the formula (I) according to Claim 1 or 2 in which R^3 represents halogen, C_1 - C_8 -alkyl or C_1 - C_8 -haloalkyl.
9. Process for preparing the compounds of the formula (I) according to Claim 1, characterized in that
- a) carboxylic acid derivatives of the formula (II)

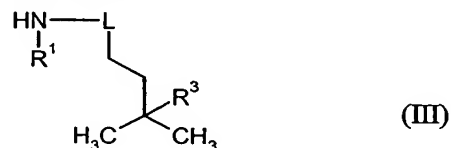


in which

A is as defined in Claim 1 and

X^1 represents halogen or hydroxyl,

are reacted with an aniline derivative of the formula (III)

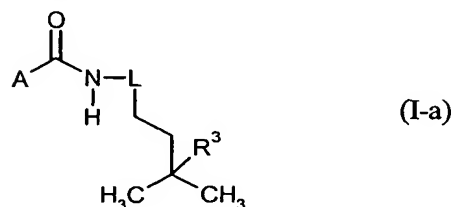


in which L, R^1 and R^3 are as defined above,

if appropriate in the presence of a catalyst, if appropriate in the presence of a condensing agent, if appropriate in the presence of an acid binder and if appropriate in the presence of a diluent,

or

b) isopentylcarboxanilides of the formula (I-a)



in which

L, A and R³ are as defined in Claim 1,

are reacted with halides of the formula (IV)



in which

X² represents chlorine, bromine or iodine,

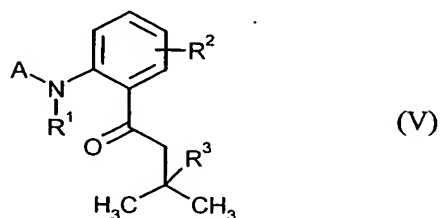
R^{1-A} represents C₁-C₈-alkyl, C₁-C₆-alkylsulphinyl, C₁-C₆-alkylsulphonyl, C₁-C₄-alkoxy-C₁-C₄-alkyl, C₃-C₈-cycloalkyl; C₁-C₆-haloalkyl, C₁-C₄-haloalkylthio, C₁-C₄-haloalkylsulphinyl, C₁-C₄-haloalkylsulphonyl, halo-C₁-C₄-alkoxy-C₁-C₄-alkyl, C₃-C₈-halocycloalkyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms; formyl, formyl-C₁-C₃-alkyl, (C₁-C₃-alkyl)carbonyl-C₁-C₃-alkyl, (C₁-C₃-alkoxy)carbonyl-C₁-C₃-alkyl; halo-(C₁-C₃-alkyl)carbonyl-C₁-C₃-alkyl, halo-(C₁-C₃-alkoxy)carbonyl-C₁-C₃-alkyl having in each case 1 to 13 fluorine, chlorine and/or bromine atoms; (C₁-C₈-alkyl)carbonyl, (C₁-C₈-alkoxy)carbonyl, (C₁-C₄-alkoxy-C₁-C₄-alkyl)carbonyl, (C₃-C₈-cycloalkyl)carbonyl; (C₁-C₆-haloalkyl)carbonyl, (C₁-C₆-haloalkoxy)carbonyl, (halo-C₁-C₄-alkoxy-C₁-C₄-alkyl)carbonyl, (C₃-C₈-halocycloalkyl)carbonyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms; or -C(=O)C(=O)R⁴, CONR⁵R⁶ or -CH₂NR⁷R⁸,

where R⁴, R⁵, R⁶, R⁷ and R⁸ are as defined in Claim 1,

in the presence of a base and in the presence of a diluent,

or

c) isopentone derivatives of the formula (V)



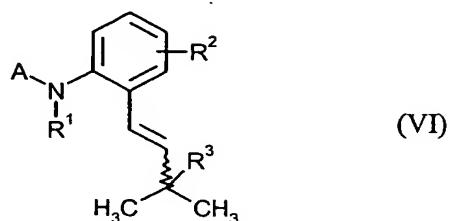
in which

R¹, R², R³ and A are as defined in Claim 1,

are reacted with hydrazine (or hydrazine hydrate) in the presence of a base and, if appropriate, in the presence of a diluent,

or

d) isopentene derivatives of the formula (VI)

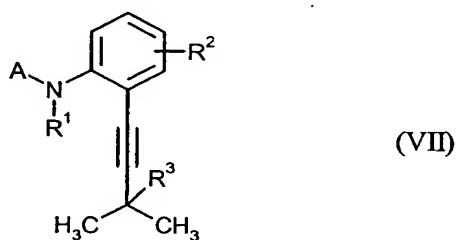


in which R^1 , R^2 , R^3 and A are as defined in Claim 1,
are hydrogenated, if appropriate in the presence of a diluent and if appropriate in the
presence of a catalyst,

5

or

e) isopentyne derivatives of the formula (VII)



in which R^1 , R^2 , R^3 and A are as defined in Claim 1,
are hydrogenated, if appropriate in the presence of a diluent and if appropriate in the
presence of a catalyst.

10

10. Compositions for controlling unwanted microorganisms, characterized in that they comprise at least one isopentylcarboxanilide of the formula (I) according to Claim 1, in addition to extenders and/or surfactants.

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11. Use of isopentylcarboxanilides of the formula (I) according to Claim 1 for controlling unwanted microorganisms.

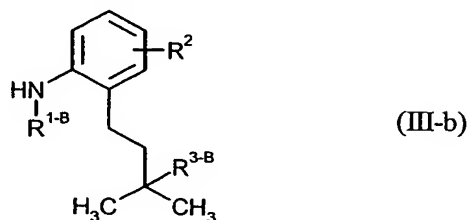
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12. Method for controlling unwanted microorganisms, characterized in that isopentylcarboxanilides of the formula (I) according to Claim 1 are applied to the microorganisms and/or their habitat.

25

13. Process for preparing compositions for controlling unwanted microorganisms, characterized in that isopentylcarboxanilides of the formula (I) according to Claim 1 are mixed with extenders and/or surfactants.

14. Aniline derivatives of the formula (III-b)

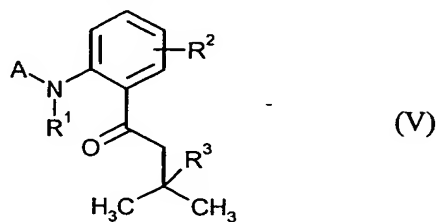


in which

- 5 a) R^{1-B} represents C_1 - C_8 -alkyl, C_1 - C_6 -alkylsulphinyl, C_1 - C_6 -alkylsulphonyl, C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl, C_3 - C_8 -cycloalkyl; C_1 - C_6 -haloalkyl, C_1 - C_4 -haloalkylthio, C_1 - C_4 -haloalkylsulphinyl, C_1 - C_4 -haloalkylsulphonyl, halo- C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl, C_3 - C_8 -halocycloalkyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms; formyl, formyl- C_1 - C_3 -alkyl, (C_1 - C_3 -alkyl)carbonyl- C_1 - C_3 -alkyl, (C_1 - C_3 -alkoxy)carbonyl- C_1 - C_3 -alkyl; halo-(C_1 - C_3 -alkyl)-carbonyl- C_1 - C_3 -alkyl, halo-(C_1 - C_3 -alkoxy)carbonyl- C_1 - C_3 -alkyl having in each case 1 to 13 fluorine, chlorine and/or bromine atoms; (C_1 - C_8 -alkyl)carbonyl, (C_1 - C_8 -alkoxy)carbonyl, (C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl)carbonyl, (C_3 - C_8 -cycloalkyl)carbonyl; (C_1 - C_6 -haloalkyl)carbonyl, (C_1 - C_6 -haloalkoxy)carbonyl, (halo- C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl)carbonyl, (C_3 - C_8 -halocycloalkyl)carbonyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms; or $-C(=O)C(=O)R^4$, $CONR^5R^6$ or $-CH_2NR^7R^8$, and
- 10 R^{3-B} represents hydrogen, halogen, C_1 - C_8 -alkyl, C_1 - C_8 -haloalkyl,
- or
- 20 b) R^{1-B} represents hydrogen, C_1 - C_8 -alkyl, C_1 - C_6 -alkylsulphinyl, C_1 - C_6 -alkylsulphonyl, C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl, C_3 - C_8 -cycloalkyl; C_1 - C_6 -haloalkyl, C_1 - C_4 -haloalkylthio, C_1 - C_4 -haloalkylsulphinyl, C_1 - C_4 -haloalkylsulphonyl, halo- C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl, C_3 - C_8 -halocycloalkyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms; formyl, formyl- C_1 - C_3 -alkyl, (C_1 - C_3 -alkyl)carbonyl- C_1 - C_3 -alkyl, (C_1 - C_3 -alkoxy)carbonyl- C_1 - C_3 -alkyl; halo-(C_1 - C_3 -alkyl)-carbonyl- C_1 - C_3 -alkyl, halo-(C_1 - C_3 -alkoxy)carbonyl- C_1 - C_3 -alkyl having in each case 1 to 13 fluorine, chlorine and/or bromine atoms; (C_1 - C_8 -alkyl)carbonyl, (C_1 - C_8 -alkoxy)carbonyl, (C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl)carbonyl, (C_3 - C_8 -cycloalkyl)carbonyl; (C_1 - C_6 -haloalkyl)carbonyl, (C_1 - C_6 -haloalkoxy)carbonyl, (halo- C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl)carbonyl, (C_3 - C_8 -halocycloalkyl)carbonyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms; or $-C(=O)C(=O)R^4$, $CONR^5R^6$ or $-CH_2NR^7R^8$, and
- 25 R^{3-B} represents halogen, C_1 - C_8 -alkyl, C_1 - C_8 -haloalkyl,
- 30

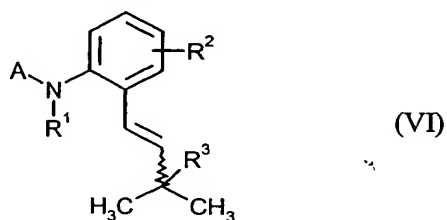
and R^2 , R^4 , R^5 , R^6 , R^7 and R^8 are each as defined in Claim 1.

15. Isopentone derivatives of the formula (V)



- 5 in which R^1 , R^2 , R^3 and A are as defined in Claim 1.

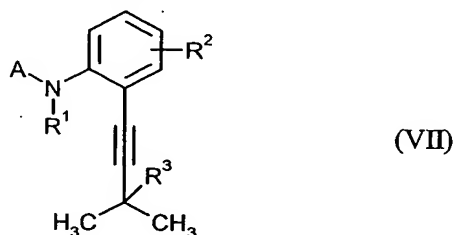
16. Isopentene derivatives of the formula (VI)



in which R^1 , R^2 , R^3 and A are as defined in Claim 1.

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17. Isopentyne derivatives of the formula (VII)

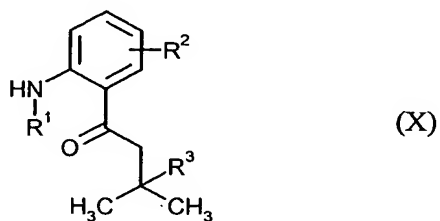


in which

R^1 , R^2 and R^3 are as defined in Claim 1,

- 15 A is as defined in Claim 1, but not A1.

18. Alkanoneanilines of the formula (X)



in which R^1 , R^2 and R^3 are as defined in Claim 1.